This listing of claims will replace all prior versions, and listings, of claims in the application.

## LISTING OF CLAIMS

- 1. (currently amended) A method to test operating safety of a process control device designed to close or open a pipe of a process system in the event of an incident comprising a process valve and a pneumatic actuator for driving to move the process valve, a position controller in a safety circuit, the position controller being connected to a measurement device, the pneumatic actuator having a pneumatic input that is directly being coupled to a pneumatic output of a solenoid valve that controls the pneumatic actuator, the solenoid valve having an electrical input control unit that is connected to the position controller for exchange of control signals, such that the pneumatic actuator can be operated by way of the solenoid valve control unit to move the process valve and the process valve can be moved from an initial condition to a final condition in the event of an incident by the pneumatic actuator which is controlled by the solenoid valve control unit, and a test cycle for the process control device comprising:
  - generating a control signal for partial movement of the process valve aided by the position controller;
  - transferring the control signal from the position controller to the <u>solenoid valve</u>

    <u>via the electrical input of the solenoid valve</u> <del>control unit via a signal</del>

    <del>connection</del>;
  - directly controlling the pneumatic actuator via its pneumatic input with the

    solenoid valve, depending on the control signal provided at the

    electrical input of the solenoid valve aided by the control unit to operate
    the pneumatic actuator for the partial movement of the process valve
    from the initial condition;

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detecting, via <u>said</u> [[a]] measurement device, measurement signals that indicate the partial movement of the process valve from the initial condition; and

returning the process valve to the initial condition.

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- 2. (original) The method according to claim 1, further comprising:
  - detecting time-resolved path signals upon detection of the measurement signals with the aid of the measurement device.
- 3. (previously presented) The method according to claim 2, further comprising: determining movement parameters from the detected time-resolved path signals.
  - 4. (original) The method according to claim 1, further comprising:
    executing a leakage measurement upon detection of the measurement signals, aided by the measurement device.
  - 5. (original) The method according to claim 1, further comprising:
    electronically logging of a course of the test cycle and electronically storing
    the course in a storage device.
  - (original) The method according to claim 1, further comprising:
     activating the test cycle for the process control device utilizing a remote control.

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- 7. (previously presented) The method according to claim 1, further comprising:

  partially venting the pneumatic actuator to partially move the process valve as
  a reaction to the controlling by the control unit.
- 5 8. (cancelled).
  - 9. (currently amended) A device to test the operating safety of a process control device designed to close or open a pipe of a process system in the event of an incident, comprising:
- 10 a process valve;

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- <u>a</u> an pneumatic actuator for driving to move the process valve, the pneumatic actuator having a pneumatic input;
- a position controller in a safety circuit;
- a solenoid valve comprising a pneumatic output that is directly coupled to the pneumatic input of the pneumatic actuator, and an electrical input control unit that is connected with the position controller for configured to exchange of control signals and is coupled to the actuator, such that the pneumatic actuator can be operated via the solenoid valve control unit to drive move the process valve from an initial condition to a final condition in the event of incident;
  - a measurement device <u>connected to the position controller</u> configured to acquire measurement signals that indicate a movement of the process valve from the initial condition;
- the position controller comprising a control signal generator configured to generate a control signal for a partial movement of the process valve in the course of a test cycle for the process control device, and to

transmit the control signal via a signal connection from the position controller to the solenoid valve via its electrical input control unit.

- 10. (original) The device according to claim 9, wherein the control unit and theposition controller are redundantly coupled to the actuator to operate the actuator.
  - 11-12. (cancelled).

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- 13. (previously presented) The device according to claim 9, wherein the
  10 measurement device comprises a motion sensor configured to detect the partial movement of the process valve.
  - 14. (previously presented) The device according to claim 9, wherein the measurement device comprises a sound sensor configured to detect the partial movement of the process valve.
  - 15. (original) The device according to claim 9, further comprising:
    - a suppression device to suppress the generation of the control signal for the partial movement of the actuator in the course of the test cycle.
  - 16. (original) The device according to claim 9, further comprising:
    - a storage device configured to store electronic information concerning the test cycle.
- 25 17. (previously presented) The device according to claim 9, further comprising:
  - 5 REQUEST FOR CONTINUED EXAMINATION AND AMENDMENT E

an evaluation device configured to automatically evaluate the measurement signals that indicate a movement of the process valve from the initial condition.

- 18. (previously presented) The method according to claim 1, wherein the detecting is performed as a direct detecting of the process valve and the measurement signals are directly taken from the process valve.
- 19. (previously presented) The method according to claim 1, wherein themeasurement device is located between the process valve and the actuator.

20-21. (cancelled).

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- 22. (new) The method according to claim 1, further comprising:
- switching a switch device connected to the solenoid valve and thereby interrupting a control signal of a signal line provided to the solenoid valve with a test control signal to the solenoid valve; and
  - generating the test control signal by the position controller so that the pneumatic output of the solenoid valve directs the pneumatic actuator to partially move the control element.
  - 23. (new) The method according to claim 22, further comprising:
    - detecting the partial movement of the control element with the measurement device to determine if the position controller, the solenoid valve, the pneumatic actuator, and the control element have properly moved in response to the test control signal.

- 24. (new) The method according to claim 23, wherein all elements involved in operating the actuator with the control signal of the signal line to the solenoid valve are also involved in operating the actuator with the test control signal to the solenoid valve.
- 25. (new) The device according to claim 9, further comprising:
  - a switch device connected to the solenoid valve that interrupts a control signal of a signal line provided to the solenoid valve to provide a test control signal to the solenoid valve; and
  - a test control signal generator of the position controller that provides the test control signal to the solenoid valve via a signal connection so that the pneumatic output of the control unit directs the pneumatic actuator to partially move the control element.

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